

DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP  
130 Water Street  
Boston, Massachusetts 02109

Attorney's Docket No. 56677(70551)

O I P E  
J U N T Y  
APR 17 2002  
T P A L E I

COPY OF PAPERS  
ORIGINALLY FILED  
03/08/2002

Page 1 of 4

### DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, first and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ELECTRONIC COMPONENT AND METHOD AND STRUCTURE FOR MOUNTING

SEMICONDUCTOR DEVICE

which is described and claimed in:

- the specification attached hereto.
- the specification in U.S. Application Serial Number 10/040,804, filed on November 8, 2001
- the specification in PCT international application Number \_\_\_\_\_, filed on \_\_\_\_\_; and was amended on \_\_\_\_\_

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

#### Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. 119:

Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. 119?
2000-339954 (P)	November 8, 2000	Japan	<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO
			<input type="checkbox"/> YES <input type="checkbox"/> NO

- 2 -

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**Prior U.S. Applications or PCT International Applications Designating the U.S. Benefit Under 35 U.S.C. §120**

U.S. Applications		Status (Check One)		
Application Serial No.	U.S. Filing Date	Patented	Pending	Abandoned
PCT Applications Designating the U.S.				
Application No.	Filing Date	U.S. Serial No. Assigned		

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)**  
(35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Stewart P. Bronstein (Reg. No. 16,910)  
David G. Corlin (Reg. No. 27,026)  
George W. Neager (Reg. No. 26,964)  
Emmet V. Black (Reg. No. 29,822)

Linda M. Buckley (Reg. No. 31,003)  
Ronald I. Eisenstein (Reg. No. 30,628)  
Henry D. Pahl, Jr. (Reg. No. 20,438)  
Peter J. Manus (Reg. No. 26,766)

David S. Resnick (Reg. No. 31,275)  
Peter F. Corlett (Reg. No. 33,861)

- 3 -

<b>SEND CORRESPONDENCE TO:</b>		<b>DIRECT TELEPHONE CALLS TO:</b>	
Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street Boston, Massachusetts 02109		(617) 523-3400	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 259 260 261 262 263 264 265 266 267 268 269 269 270 271 272 273 274 275 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- 4 -

2	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
0	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
5	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

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I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201

*Masato Yasuda*  
Date: December 12, 2001

Signature of Inventor 202

*Masato Sumikawa*  
Date: December 12, 2001

DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP  
130 Water Street  
Boston, Massachusetts 02109

OIPE JC/11  
APR 11 2002  
T.R. BALE Attorney's Docket No. 56677(70551)

Page 1 of 4

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#### ELECTRONIC COMPONENT AND METHOD AND STRUCTURE FOR MOUNTING SEMICONDUCTOR DEVICE

which is described and claimed in:

- the specification attached hereto.
- the specification in U.S. Application Serial Number 10/040,804, filed on November 8, 2001
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I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

#### Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. 119:

Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. 119?
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- 2 -

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

**Prior U.S. Applications or PCT International Applications Designating the U.S.-Benefit Under 35 U.S.C. 8120**

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
(35 U.S.C. § 119(e))**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

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**Sewall & Brooklin** (Reg. No. 16,919)  
**David G. Conlin** (Reg. No. 27,076)  
**George W. Neuner** (Reg. No. 26,964)  
**Ernest V. Jack** (Reg. No. 29,822)

Linda M. Buckley (Reg. No. 31,003)  
Ronald I. Eisenstein (Reg. No. 30,628)  
Henry D. Paul, Jr. (Reg. No. 20,438)  
Peter J. Manus (Reg. No. 26,266)

David S. Kemick (Reg. No. 24,235)  
Peter F. Corless (Reg. No. 31,860)

- 3 -

## SEND CORRESPONDENCE TO:

Dike, Bronstein, Roberts & Cushman, LLP  
 130 Water Street  
 Boston, Massachusetts 02109

## DIRECT TELEPHONE CALLS TO:

(617) 523-3400

1	FULL NAME OF INVENTOR	LAST NAME	
2	RESIDENCE & CITIZENSHIP	FIRST NAME	
3	CITY	MIDDLE NAME	
4	Kashihara-shi		
5	POST OFFICE ADDRESS	STATE OR FOREIGN COUNTRY	
6	11202, Hanjiru TT, 36-1, Yamamoto-cho	COUNTRY OF CITIZENSHIP	
7		Japan	
8		STATE OR COUNTRY AND ZIP CODE	
9		Nara, Japan	
10	FULL NAME OF INVENTOR	LAST NAME	
11	RESIDENCE & CITIZENSHIP	FIRST NAME	
12	CITY	MIDDLE NAME	
13	Kashihara-shi		
14	POST OFFICE ADDRESS	STATE OR FOREIGN COUNTRY	
15	4-15-10, Inai-cho	COUNTRY OF CITIZENSHIP	
16		Japan	
17		STATE OR COUNTRY AND ZIP CODE	
18		Nara, Japan	
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21	CITY	MIDDLE NAME	
22			
23	POST OFFICE ADDRESS	STATE OR FOREIGN COUNTRY	
24		COUNTRY OF CITIZENSHIP	
25			
26	POST OFFICE ADDRESS	CITY	
27		STATE OR COUNTRY AND ZIP CODE	
28			

- 4 -

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130 Water Street  
Boston, Massachusetts 02109

O I P E J C 117  
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T E L E F O N E  
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			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

- 2 -

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applications or PCT International Applications Designating the U.S. Benefit Under 35 U.S.C. §120

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)  
(35 U.S.C. § 119(c))**

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Stewart P. Branson	(Reg. No. 16,919)
David G. Conlin	(Reg. No. 27,026)
George W. Munter	(Reg. No. 26,964)
Frank V. Lueck	(Reg. No. 29,812)

Linda M. Buckley (Reg. No. 31,003)  
Ronald J. Eisenstein (Reg. No. 30,628)  
Henry D. Paul, Jr. (Reg. No. 20,438)  
Eric J. Manus (Reg. No. 26,760)

David S. Remnick (Reg. No. 34,235)  
Peter F. Corless (Reg. No. 33,860)

- 3 -

SEND CORRESPONDENCE TO:		DIRECT TELEPHONE CALLS TO:	
Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street Boston, Massachusetts 02109		(617) 523-3400	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 229 230 231 232 233 234 235 236 237 238 239 239 240 241 242 243 244 245 246 247 248 249 249 250 251 252 253 254 255 256 257 258 259 259 260 261 262 263 264 265 266 267 268 269 269 270 271 272 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- 4 -

1	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

1	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

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3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

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2	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
3	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE OR COUNTRY AND ZIP CODE

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201

*Masao Yasuda*  
Date:  
December 12, 2001

Signature of Inventor 202

*Masao Suzuki*  
Date:  
December 12, 2001

EQUITY/1505  
(REV. 6-91)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Ticket No. 50617 (70551)

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Masao YASUDA  
Masao SUMIKAWA

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

## 2. Name and address of receiving party(ies):

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Itaya-cho, Abeno-ku

City: Osaka State: JAPAN Zip: \_\_\_\_\_

OIE JC/114  
APR 17 2002  
T-100/EV

Additional name(s) &amp; address(es) attached? [ ] yes [X] no

Please see attached.

## 3. Nature of Conveyance:

 Assignment Merger Security Agreement Change of Name Other

Execution Date: December 12, 2001 - Consecutively

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 10/040,804

B. Patent No.(s)

Additional numbers attached? [ ] Yes [X] No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: [ 1 ]

Name: Peter F. Corless  
(Reg. No: 33,860)Street Address: Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group of  
Edwards & Angell, LLP  
P. O. Box 9169

City: Boston State: MA Zip: 02209

7. Total fee (37 CFR 3.11): \$ 40.00

 Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 04-1105  
(Attach duplicate copy of this page if paying by deposit account)**DO NOT USE THIS SPACE**

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Lisa Swanson (Lazard  
Name of Person Signing)

Signature

February 28, 2001

Date

Total number of pages including cover sheet, attachments, and documents: 13

United States Patent Rights, or  
United States plus All Foreign Patent Rights

ATTORNEY DOCKET NO.

56677 (70551)

## ASSIGNMENT

Application No. 10/040,804

November 8,  
Filed 2001

Insert Name(s) of Inventor(s) → WHEREAS, Masao YASUDA and Masao SUMIKAWA

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

Insert Title of Invention → ELECTRONIC COMPONENT AND METHOD AND STRUCTURE FOR  
MOUNTING SEMICONDUCTOR DEVICE

for which an application for Letters Patent of the United States of America has been exerted by the undersigned.

Insert Date of Signing of Application → on December 12, 2001

Insert Name of Assignee → WHEREAS, Sharp Kabushiki Kaisha

Insert Address of Assignee → of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, Japan

CHECK BOX IF APPROPRIATE → its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

→  in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

Date \_\_\_\_\_

Name of Inventor \_\_\_\_\_

(signature)

F0R1M PTO 156  
(Rev. 6/93)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeRECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Masato YASUDA  
Masato SUMIKAWA2. Name and address of receiving party(ies): *OPEN CITY*

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaike-cho, Abeno-ku

City: Osaka, State: JAPAN, Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? [ ] yes [X] no  
Please see attached.

3. Nature of Conveyance:

 Assignment Merger Security Agreement Change of Name Other:

Execution Date: December 12, 2001, Consecutively

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 10/040,804

B. Patent No.(s)

Additional numbers attached?  Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. Corless  
(Reg. No. 33,860)Street Address: Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group of  
Edwards & Angell, LLP  
P. O. Box 9169

City: Boston State: MA Zip: 02209

6. Total number of applications and patents involved. [ 1 ]

7. Total fee (37 CFR 3.41): \$ 40.00

 Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 01-1105

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of  
the original document.Lisa Swiggett Harvard  
Name of Person Signing

Signature

February 28, 2001

Date

Total number of pages including cover sheet, attachments, and documents [ 3 ]

United States Patent Rights, or  
United States plus All Foreign Patent Rights

ATTORNEY DOCKET NO.

56677 (70551)

## ASSIGNMENT

Application No. 10/040,804

November 8,  
Filed 2001

Insert Name(s) of Inventor(s)

WHEREAS, Masao YASUDA and Masato SUMIKAWA

Insert Title of Invention

⇒ ELECTRONIC COMPONENT AND METHOD AND STRUCTURE FOR MOUNTING SEMICONDUCTOR DEVICE

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Insert Date of Signing of Application

⇒ on December 12, 2001; and

Insert Name of Assignee

⇒ WHEREAS, Sharp Kabushiki Kaisha

Insert Address of Assignee

⇒ of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, Japan

CHECK BOX IF APPROPRIATE

Its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

⇒  in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

(04/04 PTO-126)  
APR 6 2002

Ticket No. 36677 (78551)

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeRECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Munio YASUDA  
Masato SUMIKAWA

## 2. Name and address of receiving party(ies):

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagoya-cho, Abeno-ku

City: Osaka State: JAPAN Zip:

O I P E J C 1 / 1  
APR 17 2002  
T R B A L E 2

Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

Additional name(s) & address(es) attached? [ ] yes [X] no  
Please see attached.

## 3. Nature of Conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other

Execution Date: December 12, 2001. Consecutively

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No (s) 10/040,804

B. Patent No.(s)

Additional number attached?  Yes [X] No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Peter F. Corless  
(Reg. No: 33,860)

## 6. Total number of applications and pages involved: [ 1 ]

Street Address: Dicks, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group of  
Edwards & Angell, LLP  
P. O. Box 9160

City: Boston State: MA Zip: 02209

7. Total fee (37 CFR 3.41): \$ 42.00

[X] Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 04-1105  
(Attach duplicate copy of this page if paying by deposit account)**DO NOT USE THIS SPACE**

## 9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of  
the original document.Lisa Sivikos Hazard  
Name of Person Signing

Signature

February 28, 2001

Date

Total number of pages including cover sheet, attachments, and documents [ 3 ]

OMB No. 0651-0011 (exp. 4/04)

United States Patent Rights, or  
United States plus All Foreign Patent Rights  
ATTORNEY DOCKET NO.

56677 (70551)

## ASSIGNMENT

Application No. 10/040,804

November 8,  
Filed 2001

Insert Name(s)  
of Inventor(s)

WHEREAS, Masao YASUDA and Masato SUMIKAWA

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in  
ELECTRONIC COMPONENT AND METHOD AND STRUCTURE FOR  
MOUNTING SEMICONDUCTOR DEVICE

Insert Date  
of Signing of  
Application

on December 12, 2001

Insert Name  
of Assignee

WHEREAS, Sharp Kabushiki Kaisha

Insert Address  
of Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, Japan

CHECK BOX  
IF APPROPRIATE

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of  
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that  
may be granted therefor in the United States of America and

in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand  
paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned  
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said  
Assignee the full and exclusive right to the said invention in the United States of America, its territories,  
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)  
which may be granted therefor in the United States of America, its territories, dependencies and possessions,  
and if the box above is designated, in any and all foreign countries;  
and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for  
which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Hubert & Cushman the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date <u>December 12, 2001</u>	Name of Inventor <u>Masao Ueda</u>	<u>Masao Ueda</u> (signature) <u>Masao Ueda</u>
Date <u>December 12, 2001</u>	Name of Inventor <u>Masato Sumikawa</u>	<u>Masato Sumikawa</u> (signature) <u>Masato SUMIKAWA</u>
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____
Date _____	Name of Inventor _____	_____